#### PATENT COOPERATION TREATY

# Translation In

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  PCG-9001WO	FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/JP2004/011650	06.08.2004	08.08.2003	
International Patent Classification (IPC) or national	onal classification and IPC		
C12N15/12,	C12Q1/68, C07K14/8		
C07K16/32	2, C12N5/10, G01N33	/15, G01N33/50	
Applicant ABURATANI, Hiroyuki			
This report is the international preli- under Article 35 and transmitted to the	minary examination report, established by ne applicant according to Article 36.	y this International Preliminary Examining Authority	
2. This REPORT consists of a total of	8 sheets, in	cluding this cover sheet.	
3. This report is also accompanied by A			
a. (sent to the applicant and	l to the International Bureau) a total of	sheets, as follows:	
sheets of the descrip	ntion, claims and/or drawings which have	been amended and are the basis for this report and/or see Rule 70.16 and Section 607 of the Administrative	
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.			
b. (sent to the International	Bureau only) a total of (indicate type and	number of electronic carrier(s))	
		, containing a sequence listing and/or tables	
related thereto, in compute	readable form only, as indicated in the	Supplemental Box Relating to Sequence Listing (see	
Section 802 of the Admini	strative Instructions).		
4. This report contains indications rela	ting to the following items:		
Box No. I Basis of th	ne report		
Box No. II Priority			
Box No. II Non-estab  Box No. IV Lack of us  Box No. V Reasoned	lishment of opinion with regard to novelty	, inventive step and industrial applicability	
Box No. IV Lack of un	nity of invention		
Box No. V Reasoned citations a	statement under Article 35(2) with regard and explanations supporting such statement	to novelty, inventive step or industrial applicability; t	
Box No. VI Certain de	ocuments cited		
Box No. VII Certain de	efects in the international application		
Box No. VIII Certain of	bservations on the international application	1	
Date of submission of the demand	Date of completi	ion of this report	
Name and mailing address of the IPEA/JP	Authorized office	cer ·	
Facsimile No.	Telephone No.		

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Box	No. I	Basis of the report
1.	With regard indicated ur	it to the language, this report is based on the international application in the language in which it was filed, unless otherwise ander this item.
	1 1	report is based on translations from the original language into the following  h is the language of a translation furnished for the purposes of:
		international search (Rule 12.3 and 23.1(b))
		publication of the international application (Rule 12.4)
		international preliminary examination (Rule 55.2 and/or 55.3)
2.	receiving (	d to the elements of the international application, this report is based on (replacement sheets which have been furnished to the Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to ):  International application as originally filed/furnished
	the d	lescription:
	page	
	page	
ļ	page	received by this Authority on
	the c	claims:
	nos.	as originally filed/furnished
	nos.	
	nos.	* received by this Authority on
	nos.	* received by this Authority on
	the c	drawings:
	shee	ets as originally filed/furnished
	shee	ets* received by this Authority on
	shee	ets* received by this Authority on
	a se	equence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.	☐ The	e amendments have resulted in the cancellation of:
		the description, pages
		the claims, nos.
		the drawings, sheets/figs
1		the sequence listing (specify):
1		any table(s) related to sequence listing (specify):
4.	Thi the	is report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since by have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
١,	: If it om A	applies, some or all of those sheets may be marked "superseded."

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Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	ns whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially ave not been examined in respect of:
tl	he entire international application
<b>⊠</b> .	claims Nos
because:	
	he said international application, or the said claims Nos. <u>28–37</u> relate to the following subject matter which does not require an international preliminary examination ( <i>specify</i> ):
	ļ
	The subject matter of claims 28-37 relates to
	methods for treatment of the human body therapy, as
7	well as diagnostic methods. Thus, this International
]	Preliminary Examining Authority is not required to
•	carry out international preliminary examination on
1	this subject matter under the provisions of PCT
1	Article 17(2)(a)(i) and PCT Rule 67.1(iv).
1	the description, claims or drawings (indicate particular elements below) or said claims Nos.
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos
	no international search report has been established for said claims Nos.  the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative
	Instructions in that:
1	the written form has not been furnished does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	3	YES
		Claims	1, 2, 10, 11, 13-16, 24-27	_ NO
	Inventive step (IS)	Claims		_ YES
		Claims	1-3, 10, 11, 13-16, 24-27	_ NO
	Industrial applicability (IA)	Claims	1-3, 10, 11, 13-16, 24-27	_ YES
		Claims		_ NO

2. Citations and explanations (Rule 70.7)

Document 1: WO 02/046415 A2 (Incyte Genomics, Inc.)

Document 2: US 2003/0003538 A1 (Dietrich P.S. et al.)

Document 3: WO 03/029424 A2 (Curagen Corporation)

Parts of Claims 1, 2, 10, 11, 13 to 16 and 24 to 27 Concerning SEQ ID NO: 1

Documents 1 to 3 set forth protein coded by SEQ ID NO: 1 of this application, and fragments thereof (SEQ ID NO: 30, document 1; SEQ ID NO: 16, document 2; SEQ ID NO: 162, document 3). Documents 1 to 3 also set forth an antibody which recognizes these fragments. Documents 2 and 3 also set forth polynucleotides which code said fragments (document 2, SEQ ID NO: 15, document 3, SEQ ID NO: 161), and indicate that these polynucleotides are incorporated into vectors and transformed. Documents 2 and 3 also set forth methods of identifying anti-cancer activity.

There is therefore no discernible difference between the inventions set forth in documents 1 to 3 and the invention set forth in claims 1, 2, 10, 11, 13 to 16 and 24 to 27 of this application.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Part of Claim 3 Concerning SEQ ID NO: 1

Document 1 sets forth protein coded by SEQ ID NO: 1 of this application, and fragments thereof (SEQ ID NO: 30), and indicates that said protein is concerned with lung cancer (page 66, lines 27 to 29). It would therefore be easy for a person skilled in the art to conceive of employing the protein set forth in document 1 in the diagnosis and/or treatment of lung cancer.

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Box	No. VI	Certain documents cited			
1.	Certain pub	olished documents (Rule 70.10)			
		Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	WO	2004/040000 A2	13.05.2004	09.09.2003	09.09.2002
	[E,	, <b>x</b> ]			
I					
2.	Non-writte	en disclosures (Rule 70.9)		<del></del>	
				Da	te of written disclosure
		Kind of non-written disclosure	Date of non-written d (day/month/yea	lisclosure referring	g to non-written disclosure (day/month/year)

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Supplemental Box Relating to Sequence Listing		
Continuation of Box No. I, item 2:		
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:		
a. type of material  a sequence listing  table(s) related to the sequence listing		
b. format of material in written format in computer readable form		
c. time of filing/furnishing  contained in the international application as filed  filed together with the international application in computer readable form  furnished subsequently to this Authority for the purposes of search and/or examination  received by this Authority as an amendment* on		
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
3. Additional comments:		
* If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded."		

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

(Continued from Box III)

The international search report has not been prepared for the parts of claims 4 to 9, 12, 17 to 23, 28 to 37 and claims 1 to 3, 10, 11, 13 to 16 and 24 to 27 excluding those parts relating to SEQ ID NO: 1.